

FIG. 1

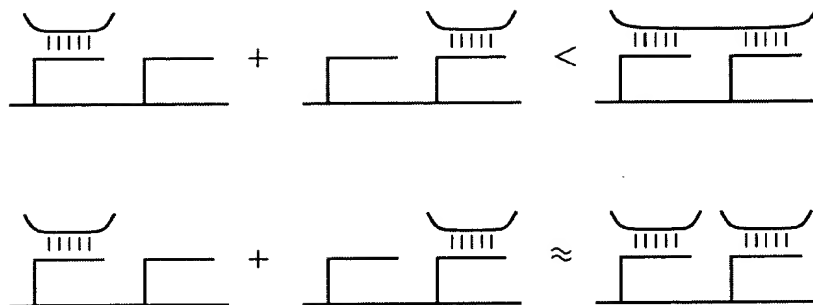


FIG. 2

CENTRAL POSITION =

|   |
|---|
| A |
| C |
| G |
| T |

PROBE 1  
a

+

CENTRAL POSITION =

|   |   |   |   |
|---|---|---|---|
| A | C | G | T |
|---|---|---|---|

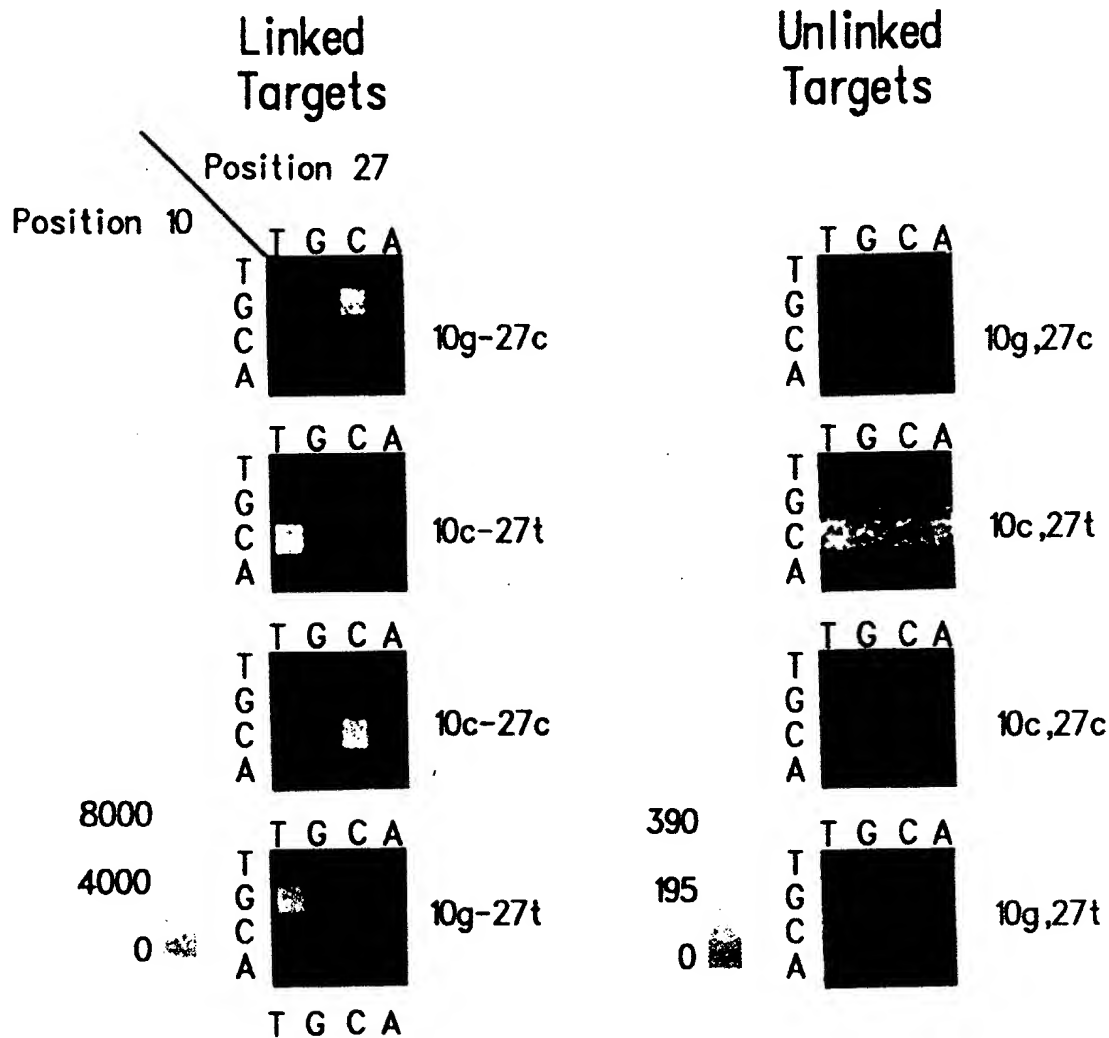
PROBE 2  
b

=

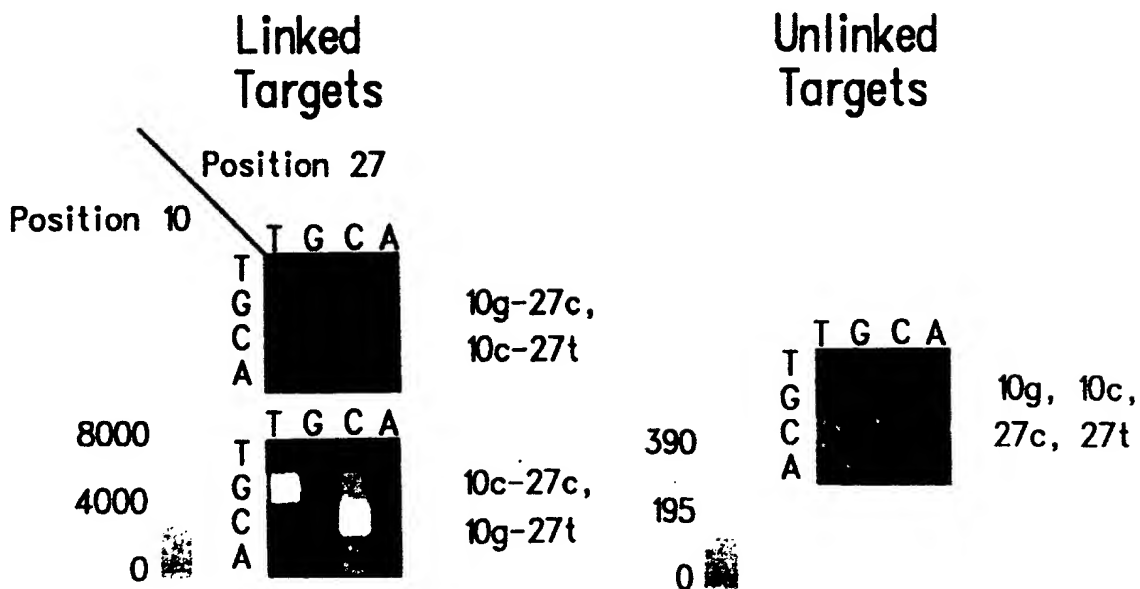
|          |          |          |          |
|----------|----------|----------|----------|
| 1=A, 2=A | 1=A, 2=C | 1=A, 2=G | 1=A, 2=T |
| 1=C, 2=A | 1=C, 2=C | 1=C, 2=G | 1=C, 2=T |
| 1=G, 2=A | 1=G, 2=C | 1=G, 2=G | 1=G, 2=T |
| 1=T, 2=A | 1=T, 2=C | 1=T, 2=G | 1=T, 2=T |

PAIRED ARRAY  
c

FIG. 3



*FIG. 4A*



*FIG. 4B*

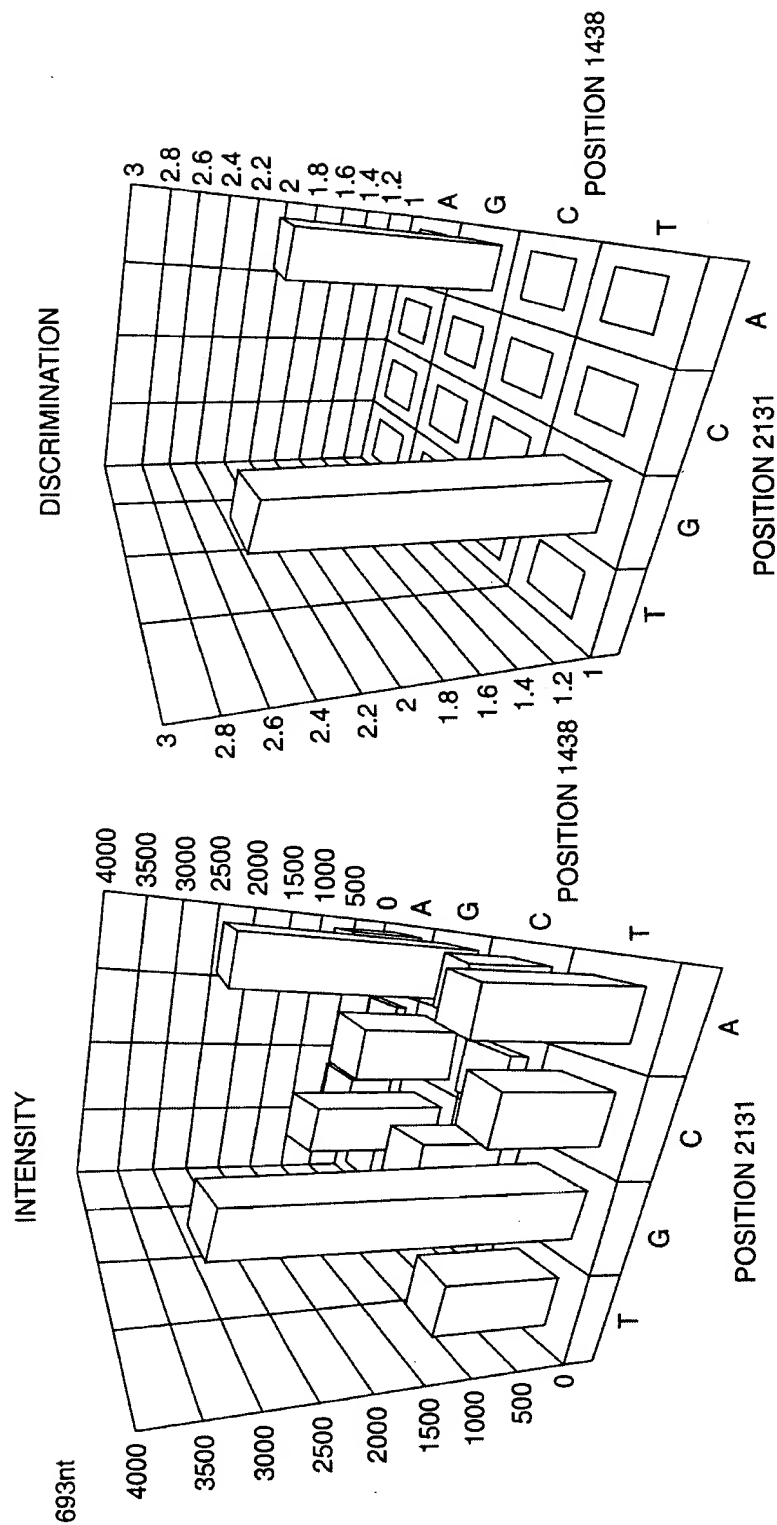


FIG. 5A

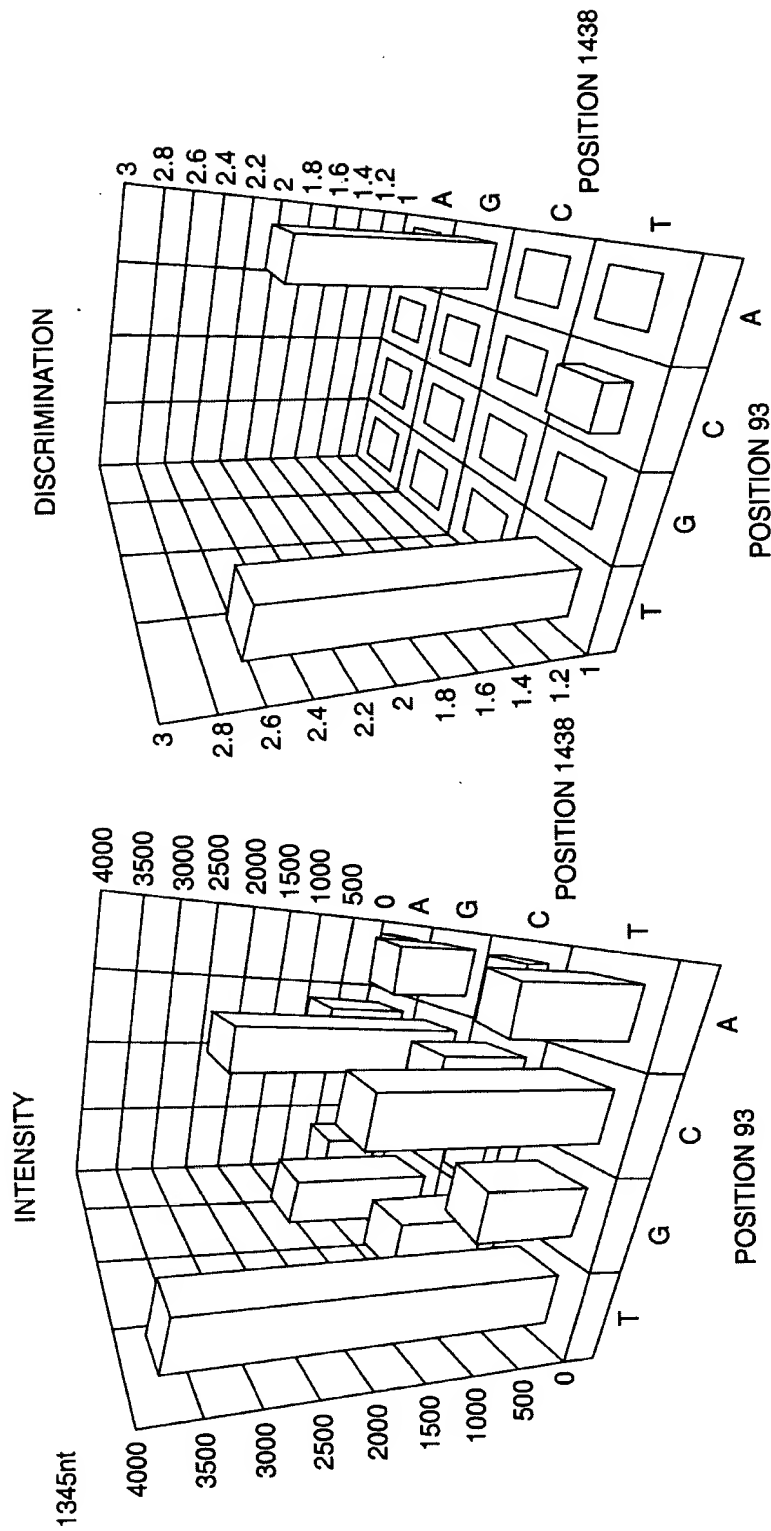


FIG. 5B

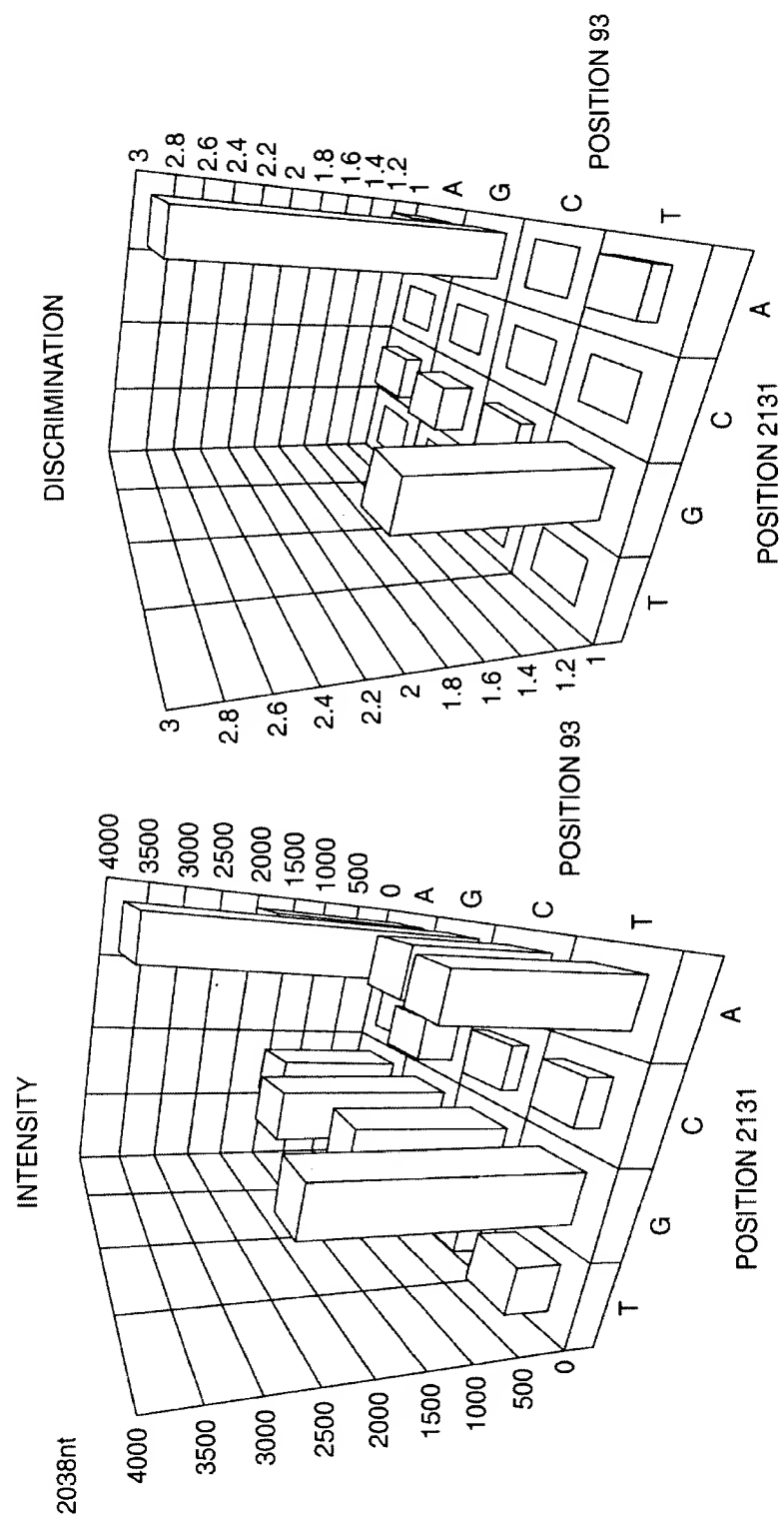


FIG. 5C

[illegible]

**FIG. 6**

2.5kB PAIRED TILING; POSITION 1338-1538

FLUORESCENT INTENSITY

1750  
1500  
1250  
1000  
750  
500  
250  
0

— CONTROL  
- - - PAIRED

1338 1363 1388 1413 1438 1463 1488 1513 1538

POSITION

2.5kB PAIRED TILING, POSITION 2338-2538

FLUORESCENT INTENSITY

POSITION

— CONTROL  
- - - PAIRED

| Position | Control Intensity | Paired Intensity |
|----------|-------------------|------------------|
| 2338     | ~50               | ~50              |
| 2345     | ~50               | ~450             |
| 2355     | ~50               | ~100             |
| 2375     | ~50               | ~700             |
| 2405     | ~50               | ~600             |
| 2425     | ~100              | ~850             |
| 2445     | ~150              | ~200             |
| 2465     | ~100              | ~250             |
| 2485     | ~50               | ~550             |
| 2505     | ~50               | ~300             |
| 2513     | ~200              | ~1050            |
| 2525     | ~50               | ~200             |
| 2538     | ~50               | ~50              |

**FIG. 7**